



Attorney's Docket No. 5718-16A

#3/Pa-a  
TL  
09/23/00

**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Rao et al.

Appl. No.: 09/478,598

Group Art Unit: 1652

Filed: 1/6/00

For: COMPOSITIONS AND METHODS FOR ALTERING AMINO ACID  
CONTENT OF PROTEINS

September 7, 2000

Assistant Commissioner for Patents  
Washington, DC 20231

**PRELIMINARY AMENDMENT**

Dear Sir:

Please amend the above-identified application as follows:

In The Claims:

Please cancel claims 1-22.

Please enter the following new claims:

*a  
Cont'd.*

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23. A method for altering amino acid composition of a native protein of interest whose conformation is unavailable, said method comprising introducing amino acid changes into said protein to create an engineered protein, said engineered protein having the conformation of the native protein wherein said conformation of the engineered protein is confirmed by binding said engineered protein with a set of antibodies capable of binding with the native protein, wherein said antibodies recognize native conformation , and wherein said amino acid changes are made to increase levels of essential amino acids in the engineered protein.

1652/10

Attorney's Docket No. 5718-16APATENT RECEIVED

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SEP 19 2000

In re: Rao et al.  
 Appl. No.: 09/478,598  
 Filed: 1/6/00  
 For: COMPOSITIONS AND METHODS FOR ALTERING AMINO ACID CONTENT OF PROTEINS

Group Art Unit: 1652  
 Examiner: Not Assigned  
 TECH CENTER 1600/2000

September 7, 2000

Assistant Commissioner for Patents  
 Washington, DC 20231

Sir:

Transmitted herewith is an AMENDMENT in the above-identified patent application.

Small entity status of this application under 37 C.F.R. §§ 1.9 and 1.27 has been established by a statement previously submitted.

A statement to establish small entity status under 37 C.F.R. §§ 1.9 and 1.27 is enclosed.

No additional fee is required.

The fee has been calculated as shown below:

(COL. 1)		(COL. 2)	(COL. 3)	SMALL ENTITY		OTHER THAN A SMALL ENTITY	
CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDIT. FEE	OR RATE	ADDIT. FEE
TOTAL	* 31	** 22	= 9	X9=	\$	X18=	\$ 162
INDEP	* 3	*** 3	= 0	X39=	\$	X78=	\$ 0
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEP. CLAIM				+130=	\$	+260=	\$
				TOTAL ADD FEE \$		OR TOTAL	\$ 162

\* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.

\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.

\*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space. The "Highest Number Previously Paid For" (Total or Independent) is the highest number found from the equivalent box in Col. 1 of a prior Amendment or the number of claims originally filed.



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TECH CENTER 1600/2900

- Please charge my Deposit Account No. 16-0605 in the amount of \$ .
- A check in the amount \$162 to cover the additional fee is enclosed.
- The Commissioner is hereby authorized to charge any deficiency in payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 16-0605.
  - Any additional filing fees required under 37 C.F.R. § 1.16 for the presentation of extra claims.
  - Any patent application processing fees under 37 C.F.R. § 1.17.

Respectfully submitted,



W. Murray Spruill  
Registration No. 32,943  
Attorney/Agent of Record

**ALSTON & BIRD LLP**  
Post Office Drawer 34009  
Charlotte, NC 28234-4009  
Tel Raleigh Office (919) 420-2200  
Fax Raleigh Office (919) 420-2260

<b>CERTIFICATION OF FACSIMILE TRANSMISSION</b> <p>I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office at Fax No. on the date shown below.</p> <p>(Type or print name of person signing certification.)</p> <hr/> <p>Signature _____ Date _____</p>	<b>CERTIFICATE OF MAILING</b> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner For Patents, Washington, DC 20231, on September 7, 2000.</p>  <p>Pamela Lockley</p>
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